

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	5154	358/1.9.ccls.	US-PGPUB; USPAT	OR	ON	2007/07/26 09:33
S2	7366179	@pd<"20030328"	US-PGPUB; USPAT	OR	ON	2007/08/06 11:59
S3	3645	((low adj contrast) low-contrast) and (high-contrast (high adj contrast))	US-PGPUB; USPAT	OR	ON	2007/07/26 08:34
S4	13727	print\$ adj (driver processor)	US-PGPUB; USPAT	OR	ON	2007/07/26 08:23
S5	6	S1 and S2 and S3 and S4	US-PGPUB; USPAT	OR	ON	2007/07/26 08:31
S6	24	S2 and S3 and S4	US-PGPUB; USPAT	OR	ON	2007/07/26 08:32
S7	6553	((low near2 contrast) low-contrast) and (high-contrast (high near2 contrast))	US-PGPUB; USPAT	OR	ON	2007/07/26 08:34
S8	31	S2 and S7 and S4	US-PGPUB; USPAT	OR	ON	2007/07/26 08:33
S9	20	((low near2 contrast) low-contrast) with monochrome	US-PGPUB; USPAT	OR	ON	2007/07/26 09:20
S10	3790	color with (high-contrast (high adj contrast))	US-PGPUB; USPAT	OR	ON	2007/07/26 08:34
S11	19122	(bit-depth (bit adj (rate depth))) with (low high)	US-PGPUB; USPAT	OR	ON	2007/07/26 09:23
S12	40	S10 and S11	US-PGPUB; USPAT	OR	ON	2007/07/26 09:23
S13	14	S2 and S12	US-PGPUB; USPAT	OR	ON	2007/07/26 09:23
S14	0	S1 and S2 and S11 and S3	US-PGPUB; USPAT	OR	ON	2007/07/26 09:34
S15	36	S1 and S2 and S11	US-PGPUB; USPAT	OR	ON	2007/07/26 09:34
S16	25099	print\$3 same mode same (information data)	US-PGPUB; USPAT	OR	ON	2007/08/06 10:33
S17	286979	print\$3 same (information data)	US-PGPUB; USPAT	OR	ON	2007/08/06 09:54
S18	26058	output near9 mode same ((high near5 contrast)(low contrast))	US-PGPUB; USPAT	OR	ON	2007/08/06 10:00
S19	22393	calculat\$4 near9 color	US-PGPUB; USPAT	OR	ON	2007/08/06 09:58
S20	137	S16 and S17 and S18 and S19	US-PGPUB; USPAT	OR	ON	2007/08/06 09:59

## EAST Search History

S21	137	S16 and S17 and S18 and S19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/08/06 09:59
S23	76	output near9 mode same ((high adj1 contrast)(low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:01
S24	7	output near9 mode same ((high adj1 contrast) same (low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:07
S25	0	("2004/0190026").URPN.	USPAT	OR	ON	2007/08/06 10:07
S26	2298544	system	USPAT	OR	ON	2007/08/06 11:11
S27	2	S24 and S26	USPAT	OR	ON	2007/08/06 10:07
S28	240	(mode state) same ((high adj1 contrast) same (low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:48
S29	114	S28 and S26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:51
S30	12	("4332833"   "5182647"   "5314831"   "5450205"   "6080236"   "6177127"   "6218198"   "6284552"   "6336969"   "6489992"   "6555423"   "RE36371").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 10:17
S31	7	contrast and S30	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 10:17
S32	1	S30 and ((high adj1 contrast)(low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:27
S33	19	("3752917"   "4272188"   "4326796"   "4334767"   "4467323"   "4647184"   "4780744"   "Re31773"   "Re32253").PN. OR ("5016050"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 10:27

## EAST Search History

S34	0	S33 and ((high adj1 contrast)(low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:27
S35	242635	(print\$3 output) same (mode state) same (information data)	US-PGPUB; USPAT	OR	ON	2007/08/06 10:35
S36	33	S29 and S35	US-PGPUB; USPAT	OR	ON	2007/08/06 10:35
S37	415	(mode state output) same ((high adj1 contrast) same (low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:25
S38	207	(output) same ((high adj1 contrast) same (low adj1 contrast))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:49
S39	117	S38 and S26	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:52
S40	18	(low near1 contrast) same (low near1 bit)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:58
S41	263	contrast same (bit near3 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:02
S42	2	S37 and S41	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 10:59
S43	11	contrast same ((low hight) near9 bit near3 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:09
S45	263	(contrast same bit near3 depth)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:10

## EAST Search History

S46	113	S26 and S45	USPAT	OR	ON	2007/08/06 11:23
S47	113	print\$1job	USPAT	OR	ON	2007/08/06 11:24
S48	187	print\$2job print\$2data	USPAT	OR	ON	2007/08/06 11:24
S49	4859602	(mode state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:07
S50	557803	data near9 image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:01
S51	961145	contrast	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:27
S52	559	bit\$2depth	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:49
S53	0	S26 and S48 and S49 and S50 and S51 and S52	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:56
S54	38593	bit\$2depth OR (color and monochrome)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:53
S55	38098	(color and monochrome)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 11:54
S56	1549	contrast same (color and monochrome)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:15
S57	286	S26 and S49 and S56 and S50	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:17

## EAST Search History

S58	8240531	@pd<"20050328"	US-PGPUB; USPAT	OR	ON	2007/08/06 12:00
S59	231	S57 and S58	US-PGPUB; USPAT	OR	ON	2007/08/06 12:00
S60	319063	(mode state) near5 output	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:43
S61	43	S60 and S59	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:08
S62	382	contrast near7 (color and monochrome)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:15
S63	422563	data near2 image	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:17
S64	266	S26 and S49 and S56 and S63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:35
S65	50	S26 and S60 and S56 and S63	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:36
S66	188884	mode near4 (data information)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:37
S67	335	contrast near6 ((black\$white monochrome) near6 (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:27
S68	20	S60 and S67	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 12:43

## EAST Search History

S69	3	("5146272"   "5734390").PN. OR ("7058326").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:00
S70	0	(data near9 image) same (output\$4mode same (monochrome black\$4white) same (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:03
S71	0	(data) same (output\$4mode same (monochrome black\$4white) same (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:49
S72	83	(data) same ((output near3 mode) same (monochrome black\$4white) same (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 13:04
S73	2	("6118895"   "6804033").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 13:48
S74	42524	calculat\$4 near3 (table (color adj space))	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:31
S75	1307	(data) same (mode same (monochrome black\$4white) same (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 17:32
S76	57	S74 and S75	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 14:34

# EAST Search History

S77	143	("20020009312"   "20020025172"   "20020152056"   "20020171861"   "20020171874"   "20030012445"   "20030038968"   "20030039494"   "20030044185"   "20030058465"   "20030058706"   "20030086722"   "20030095287"   "20030128243"   "20030142158"   "20030169325"   "20030215260"   "20030224268"   "20040008245"   "20040013442"   "20040033088"   "20040036754"   "20040042823"   "20040052545"   "20040067076"   "20040076448"   "20040076449"   "20040086291"   "20040091287"   "20040105116"   "20040109610"   "20040114815"   "20040114819"   "20040120733"   "20040121254"   "20040126029"   "20040126148"   "20040130738"   "20040134978"   "20040141651"   "20040151386"   "20040151387"   "20040151514"   "20040179237"   "20040190782"   "20040201593"   "20040202371"   "20040208379"   "20040213600"   "20040217887"   "20040218817"   "20050062599"   "20050111343"   "20050154562"   "4530063"   "4811051"   "5003346"   "5168307"   "5182597"   "5317368"   "5448338"   "5619316"   "5708938"   "5740494"   "5765087"   "5848329"   "5911004"   "5915155"   "5937228"   "5968301"   "5970280"   "5999762"   "6000784"   "6034792"   "6052205"   "6108508"   "6125243"   "6160979"   "6224183"   "6236820"   "6259813"   "6295435"   "6324374"   "6336007"   "6345170"   "6381435"   "6400917"   "6422696"   "6456806"   "6459816"   "6460973"   "6466754"   "6470169"   "6480623"   "6505014"   "6507674"   "6515747"   "6519052"   "6556707"   "6556802"   "6560438"   "6571071"   "6580887"   "6597885"   "6603884"   "6623816"   "6627015").PN. OR ("6628908"   "6628915"   "6644236"   "6667691"   "6669189"   "6671484"   "6674982"   "6681096"   "6683987"   "6683990"   "6694112"   "6697588"   "6704444"   "6704455"   "6707480"   "6714685"   "6721516"   "6721523"   "6721534"   "6725003"   "6736500"   "6741831"   "6757509"   "6757512"   "6760557"   "6768870"	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:01
-----	-----	---	------------------------------	----	----	------------------

## EAST Search History

S78	770	calculat\$4 near3 (table (color adj space)) near9 (store save sent)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 14:53
S79	1	S78 and S75	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 14:54
S80	1074	calculat\$4 near3 (table (color adj space)(color adj conversion) matrix) near9 (store save sent)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 15:14
S81	2	S80 and S75	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 14:54
S82	660	S58 and S80	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 15:05
S83	20	calculat\$4 adj4 (table (color adj space)(color adj conversion) matrix) near9 (store save sent) same image near data	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 15:11
S84	1313	calculat\$4 near3 (table (color adj space)(color adj conversion) matrix) near9 (store save sent)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:09
S85	24	calculat\$4 adj4 (table (color adj space)(color adj conversion) matrix) near9 (store save sent) same (image near data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:14
S87	24963	calculat\$4 near3 (look\$2up adj table (color adj space)(color adj conversion) matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:20
S88	1	S75 same S87	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:15



## EAST Search History

S89	75	S75 same (look\$2up adj table (color adj space)(color adj conversion) matrix)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:54
S90	823185	"75" and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 15:55
S91	51	S89 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 16:50
S92	5	("4953012"   "5357354"   "5471325"   "5726781"   "6567544").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 16:49
S94	17397	print\$4 adj driver	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:02
S95	3	S94 and S91	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 16:56
S96	166	S87 and S94 and S58	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 16:57
S97	15	("5345548"   "5623675"   "5625757"   "5666478"   "5678000"   "5872900"   "5887990").PN. OR ("6149323").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 17:12
S98	4148	picture adj object	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 17:13
S99	33	(picture near9 color) and (no near9 picture near9 monochrome)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/06 17:29

## EAST Search History

S10 0	1	(picture adj object) same ((mode state) same (monochrome black\$4white) same (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 17:33
S10 1	480	(picture adj object) same (mode state)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:04
S10 2	250	S58 and S101	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 17:33
S10 3	3	S94 and S102	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:02
S10 4	5	(detect near (picture adj object))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:06
S10 5	9	((detect distinguish recognize) near (picture adj object))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:12
S10 6	2230	((detect distinguish recognize) near (picture))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:12
S10 7	115	((detect distinguish recognize) near (picture)) same mode	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:12
S10 8	63	S107 and S58	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/06 18:12
S10 9	13	("4713701").URPN.	USPAT	OR	ON	2007/08/06 18:35
S11 0	13814	print\$ adj (driver processor)	US-PGPUB; USPAT	OR	ON	2007/08/07 08:37

## EAST Search History

S11 1	949	contrast adj (properties attribute)	US-PGPUB; USPAT	OR	ON	2007/08/07 08:36
S11 2	1	S110 same S111	US-PGPUB; USPAT	OR	ON	2007/08/07 08:36
S11 3	863342	contrast	US-PGPUB; USPAT	OR	ON	2007/08/07 08:36
S11 4	362	S110 same S113	US-PGPUB; USPAT	OR	ON	2007/08/07 08:37
S11 5	11886	print\$ adj (driver)	US-PGPUB; USPAT	OR	ON	2007/08/07 08:37
S11 6	327	S115 same S113	US-PGPUB; USPAT	OR	ON	2007/08/07 08:37
S11 7	7366215	@pd<"20030328"	US-PGPUB; USPAT	OR	ON	2007/08/07 08:39
S11 8	98	S116 and S117	US-PGPUB; USPAT	OR	ON	2007/08/07 09:10
S11 9	15863	picture same (detect\$4 recogn\$6 ) same (element object article matter item entity)	US-PGPUB; USPAT	OR	ON	2007/08/07 09:30
S12 0	9858	S117 and S119	US-PGPUB; USPAT	OR	ON	2007/08/07 09:29
S12 1	33110	((black\$5white monochrome) near6 (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:40
S12 3	53950	((black\$5white monochrome) and (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:28
S12 4	724	S120 and S123	US-PGPUB; USPAT	OR	ON	2007/08/07 09:29
S12 5	89	picture same (detect\$4 recogn\$6 ) same (element object article matter item entity) same ((black\$5white monochrome) and (polychrome color))	US-PGPUB; USPAT	OR	ON	2007/08/07 09:55
S12 6	4500	picture near9 (detect\$4 recogn\$6) near9 (element object article matter item entity)	US-PGPUB; USPAT	OR	ON	2007/08/07 11:08
S12 7	38294	((black\$5white monochrome) near15 (polychrome color))	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:40

## EAST Search History

S12 8	163	S117 and S126 and S127	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 09:41
S12 9	14	picture same (detect\$4 recogn\$6 ) same (element object article matter item entity) same (present) same (polychrome color)	US-PGPUB; USPAT	OR	ON	2007/08/07 09:56
S13 0	716	picture same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (polychrome color) same (output print)	US-PGPUB; USPAT	OR	ON	2007/08/07 10:10
S13 1	480	S117 and S130	US-PGPUB; USPAT	OR	ON	2007/08/07 10:01
S13 2	41	((character )(no\$1 near5 picture)) same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (monochrome black\$4white) same (output print)	US-PGPUB; USPAT	OR	ON	2007/08/07 10:11
S13 3	42	picture same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (polychrome color) same (output print) same transform\$4	US-PGPUB; USPAT	OR	ON	2007/08/07 10:10
S13 4	13	(no\$1 near5 picture) same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (monochrome black\$4white polychrome color) same (output print)	US-PGPUB; USPAT	OR	ON	2007/08/07 10:18
S13 5	19	(no\$1 near5 (picture photograp\$3)) same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (monochrome black\$4white polychrome color) same (output print)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:11
S13 6	20	(no\$1 near5 (picture photograp\$3 figure portrait)) same (detect\$4 recogn\$6 present) same (element object article matter item entity) same (monochrome black\$4white polychrome color) same (output print)	US-PGPUB; USPAT	OR	ON	2007/08/07 11:42
S13 7	176	(picture photograp\$3 figure portrait) near5 (detect\$4 recogn\$6 present) near8 (polychrome color) near5 (output\$3 print\$4)	US-PGPUB; USPAT	OR	ON	2007/08/07 10:24

## EAST Search History

S13 8	131	S117 and S137	US-PGPUB; USPAT	OR	ON	2007/08/07 10:24
S13 9	606	358/462.ccls.	US-PGPUB; USPAT	OR	ON	2007/08/07 15:43
S14 0	446	S117 and S139	US-PGPUB; USPAT	OR	ON	2007/08/07 10:40
S14 1	477	(monochrome near9 text and color near9 image)	US-PGPUB; USPAT	OR	ON	2007/08/07 10:58
S14 2	5	S140 and S141	US-PGPUB; USPAT	OR	ON	2007/08/07 10:41
S14 3	499	(monochrome near9 text and color near9 (photo\$7 picture image))	US-PGPUB; USPAT	OR	ON	2007/08/07 10:43
S14 4	5	("4722008"   "5025481"   "5148495"   "5189523"   "5369507").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 10:49
S14 5	3382	(monochrome near9 (print output)) and (color near9 (print output))	US-PGPUB; USPAT	OR	ON	2007/08/07 10:59
S14 6	10	S140 and S145	US-PGPUB; USPAT	OR	ON	2007/08/07 10:59
S14 7	7	("4709274"   "5018024"   "5034990"   "5077615"   "5130823"   "5748794"   "5757976").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:02
S14 8	20	S126 and S139	US-PGPUB; USPAT	OR	ON	2007/08/07 11:08
S14 9	6	("4893188"   "4953012"   "5128748").PN. OR ("5576849"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:11
S15 0	11	("5014124"   "5331442"   "5576849"   "5579446"   "5704021"   "5731823"   "5861960"   "5911004"   "6040927"   "6744918"   "6900902").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:19
S15 1	13238	(transform convert) near9 (monochrome black\$2white color) near9 (output data)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:41
S15 2	43	S139 and S151	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:23

## EAST Search History

S15 3	8433	(transform convert) near9 (monochrome black\$2white color) near9 (output print\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:25
S15 4	23	S139 and S153	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:25
S15 5	229	(transform convert) near9 (monochrome black\$2white) near9 (output print\$4)	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:25
S15 6	1	S139 and S155	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 11:25
S15 7	26	("3807852"   "4308553"   "4369461"   "4688031"   "4703318"   "5098817"   "5138465"   "5142337"   "5153576"   "5153739"   "5201032"   "5291243"   "5309548"   "5321470"   "5408343"   "5485278"   "5485288"   "5568248"   "5606628"   "5748798").PN. OR ("6169607").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:26
S15 8	15	("5182548"   "5303336"   "5319748"   "5353388"   "5422992"   "5499329"   "5504891"   "5506985"   "5513013"   "5841548"   "5859711"   "5978557"   "5995721"   "6169607"   "6224048").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:41
S15 9	14735	(picture photograp\$3 figure portrait) near9 contrast	US-PGPUB; USPAT	OR	ON	2007/08/07 15:12
S16 0	20	S139 and S159	US-PGPUB; USPAT	OR	ON	2007/08/07 11:43
S16 1	42925	(picture photograp\$3 figure portrait) same contrast	US-PGPUB; USPAT	OR	ON	2007/08/07 11:59
S16 2	14	("4709274"   "4723173"   "5001767"   "5014124"   "5079638"   "5101438"   "5128748"   "5172291").PN. OR ("5299030"). URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 11:59

## EAST Search History

S16 3	13	(picture photograp\$3 figure portrait) and S162	US-PGPUB; USPAT	OR	ON	2007/08/07 12:00
S16 4	8	("4709274"   "4723173"   "5001767"   "5014124"   "5079638"   "5101438"   "5128748"   "5172291").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 12:10
S16 5	377	high\$2contrast and low\$2contrast	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 12:10
S16 6	0	S165 and S139	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 12:10
S16 7	12	high\$2contrast and S139	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 13:30
S16 8	508	bit\$1depth	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 13:31
S16 9	1	S139 and S168	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 13:33
S17 0	15	("4998122").URPN.	USPAT	OR	ON	2007/08/07 14:26
S17 1	4	contrast and S170	USPAT	OR	ON	2007/08/07 14:26
S17 2	16	("4933984"   "5048107"   "5065442"   "5075895"   "5091964"   "5093868"   "5101439"   "5101448"   "5129012"   "5307422"   "5313526"   "5335290"   "5351314"   "5436983"   "5465304"   "5588072").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 15:06
S17 3	397710	(picture photograp\$3 figure portrait) and contrast	US-PGPUB; USPAT	OR	ON	2007/08/07 15:26
S17 4	153	S173 and S139	US-PGPUB; USPAT	OR	ON	2007/08/07 17:26
S17 5	14	("3523725"   "3615392"   "3936173"   "4194221"   "4227795"   "4255040"   "4403257"   "4451137"   "4472047"   "4517579"   "4680642"   "4700235"   "4701808").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 15:19
S17 6	18663	(picture photograp\$3 figure portrait) and (high adj contrast)	US-PGPUB; USPAT	OR	ON	2007/08/07 15:30
S17 7	39	S176 and S139	US-PGPUB; USPAT	OR	ON	2007/08/07 15:27

## EAST Search History

S17 8	9	("5331442"   "5502793"   "6078697"   "6195459"   "6233353"   "6466693"   "6529629"   "6631210"   "6778699").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 15:28
S17 9	58	(picture photograp\$3 figure portrait) and (add near3 (high adj contrast))	US-PGPUB; USPAT	OR	ON	2007/08/07 15:30
S18 0	5	("4958238"   "4975786"   "5060284"   "5068746"   "5077812").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 15:40
S18 1	70	345/617.ccls.	US-PGPUB; USPAT	OR	ON	2007/08/07 15:47
S18 2	0	(2002/0025079).CCLS.	US-PGPUB; USPAT	OR	OFF	2007/08/07 15:49
S18 3	12271	low\$4 adj contrast	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 15:56
S18 4	14	S183 and S139	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:03
S18 5	827694	character	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:04
S18 6	14	S184 and S185	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:05
S18 7	139	S139 and character and contrast	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:05
S18 9	8	S139 and (character same low\$4 adj contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:17
S19 0	13	S139 and ((low ad2 bit) same low\$4 adj contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:19



## EAST Search History

S19 1	7	S139 and (threshold same low\$4 adj contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:21
S19 2	56	S139 and (threshold same contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:32
S19 3	381	S139 and (threshold value same contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:33
S19 4	0	S139 and ((bit adj depth) same contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:34
S19 5	1	S139 and ((bit adj depth) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:34
S19 6	7	S139 and ((monochrome and color) same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:35
S19 7	68	S139 and (picture same threshold)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:36
S19 8	8	S139 and (picture same threshold same contrast)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/08/07 16:36
S19 9	21	("4686580"   "4742400"   "4827433"   "4841337").PN. OR ("4969051").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 16:41
S20 0	21	("4783837"   "4847786"   "4879753"   "4897799"   "4969051"   "5001576"   "5138672"   "5153936").PN. OR ("5905820").URPN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:05

## EAST Search History

S20 1	4110	color near3 space near3 conversion	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:05
S20 2	6018	color near3 space near3 conver\$5	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:05
S20 3	6524	color near3 space near3 (conver\$5 calculat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:06
S20 4	51452	(matrix space) near3 (conver\$5 calculat\$3)	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:10
S20 5	57	S204 and S139	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:06
S20 6	9	("5331442"   "5502793"   "6078697"   "6195459"   "6233353"   "6466693"   "6529629"   "6631210"   "6778699").PN.	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:07
S20 7	1	S206 and S204	US-PGPUB; USPAT; USOCR	OR	ON	2007/08/07 17:08
S20 8	3396	(matrix space) near3 (conver\$5 calculat\$3) near9 color near9 (image photograph\$3)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:15
S20 9	5180	358/1.9.ccls.	US-PGPUB; USPAT	OR	ON	2007/08/07 17:12
S21 0	511	S208 and S209	US-PGPUB; USPAT	OR	ON	2007/08/07 17:13
S21 1	3	S210 and S139	US-PGPUB; USPAT	OR	ON	2007/08/07 17:13
S21 2	210	(matrix space) near3 (conver\$5 calculat\$3) near9 color near9 (picture photograph\$3)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:21
S21 3	33	S212 and (S139 S209)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:16
S21 4	1	(matrix space) near3 (conver\$5 calculat\$3) near9 (color near9 (picture photograph\$3)) and ( character near9 monochrome)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:23
S21 5	1	(matrix space) near3 (conver\$5 calculat\$3) near9 (color near9 (picture photograph\$3)) and (character near9 monochrome)	US-PGPUB; USPAT	OR	ON	2007/08/07 17:24
S21 6	26	S174 and color adj space	US-PGPUB; USPAT	OR	ON	2007/08/07 17:26

## EAST Search History

S21 7	34	(US-20040141766-\$ or US-20050242178-\$ or US-20020037038-\$).did. or (US-7110917-\$ or US-6950778-\$ or US-5896174-\$ or US-5230974-\$ or US-5016050-\$ or US-6520694-\$ or US-7058326-\$ or US-6643397-\$ or US-6002814-\$ or US-5937233-\$ or US-5907415-\$ or US-6149323-\$ or US-5146272-\$ or US-6339477-\$ or US-6304263-\$ or US-5369507-\$ or US-5359437-\$ or US-5134666-\$ or US-5576849-\$ or US-6201612-\$ or US-5299030-\$ or US-4998122-\$ or US-4969051-\$ or US-4740818-\$ or US-4709274-\$ or US-6738527-\$). did. or (US-7064863-\$ or US-6704467-\$ or US-4723173-\$ or US-5905820-\$ or US-5802216-\$). did.	US-PGPUB; USPAT	OR	ON	2007/08/08 15:34
S21 8	3	S217 and color adj space	US-PGPUB; USPAT	OR	ON	2007/08/08 10:08
S21 9	0	((calculate adj8 color adj space) near6 (monochrome and color))	US-PGPUB; USPAT	OR	ON	2007/08/08 10:09
S22 0	5	((calculat\$4 near3 color near4 space) same (monochrome and color))	US-PGPUB; USPAT	OR	ON	2007/08/08 10:10
S22 1	606	358/462.ccls.	US-PGPUB; USPAT	OR	ON	2007/08/08 11:55
S22 2	242	picture near2 (element object) NEAR9 output near3 (color monochrome)	US-PGPUB; USPAT	OR	ON	2007/08/08 11:56
S22 3	291	(picture photograph\$4) near2 (element object) NEAR9 output near3 (color monochrome)	US-PGPUB; USPAT	OR	ON	2007/08/08 11:57
S22 4	0	S221 and S223	US-PGPUB; USPAT	OR	ON	2007/08/08 11:56
S22 5	967	(picture photograph\$4) near2 (element object) NEAR9 (output\$3 print\$4) near3 (color monochrome)	US-PGPUB; USPAT	OR	ON	2007/08/08 11:58
S22 6	0	S225 and S221	US-PGPUB; USPAT	OR	ON	2007/08/08 11:57
S22 7	3	(US-20040141766-\$ or US-20050242178-\$ or US-20020025079-\$).did.	US-PGPUB; USPAT	OR	ON	2007/08/08 15:35
S22 8	8	("5907415").URPN.	USPAT	OR	ON	2008/02/04 13:03

## EAST Search History

S22 9	35	(US-20040141766-\$ or US-20050242178-\$ or US-20020037038-\$ or US-20020025079-\$).did. or (US-6339477-\$ or US-7064863-\$ or US-6704467-\$ or US-6304263-\$ or US-5369507-\$ or US-5134666-\$ or US-5576849-\$ or US-6201612-\$ or US-5299030-\$ or US-4998122-\$ or US-4969051-\$ or US-4740818-\$ or US-4709274-\$ or US-4723173-\$ or US-5905820-\$ or US-5802216-\$ or US-7110917-\$ or US-6950778-\$ or US-5896174-\$ or US-5016050-\$ or US-5230974-\$ or US-6520694-\$ or US-5359437-\$ or US-7058326-\$ or US-6149323-\$ or US-6002814-\$). did. or (US-5146272-\$ or US-6643397-\$ or US-5937233-\$ or US-5907415-\$ or US-6738527-\$). did.	US-PGPUB; USPAT	OR	ON	2008/02/20 10:10
S23 0	8	user with (set\$3 select) and S229	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/20 10:11
S23 1	596	382/282.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/20 10:19
S23 2	643	358/2.1.ccls.	US-PGPUB; USPAT; USOCR; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/02/20 10:21